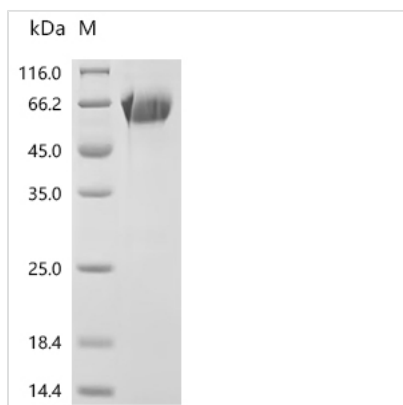


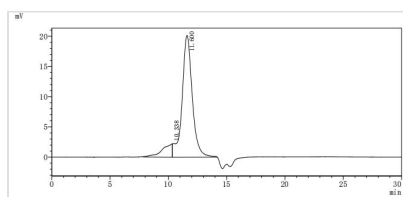


# Recombinant *Nepenthes gracilis* Aspartic proteinase nepenthesin-2 (nep2)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-YP765721NBAV(A4)                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Abbreviation</b>      | Recombinant <i>Nepenthes gracilis</i> nep2 protein                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20?/-80?. The shelf life of lyophilized form is 12 months at -20?/-80?.                                                                                                                                                    |
| <b>Uniprot No.</b>       | Q766C2                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>              | Liquid or Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b>    | If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.                                                                                                                                                                                              |
| <b>Product Type</b>      | Recombinant <i>Nepenthes gracilis</i> Aspartic proteinase nepenthesin-2 (nep2)                                                                                                                                                                                                                                                                                                                                                 |
| <b>Immunogen Species</b> | <i>Nepenthes gracilis</i> (Slender pitcher plant)                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sensitivity</b>       | Not Test                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>            | Greater than 95% as determined by SDS-PAGE.<br>Greater than 90% as determined by SEC-HPLC.                                                                                                                                                                                                                                                                                                                                     |
| <b>Sequence</b>          | TSRGTLLHHGQKRPQPGLRVDLEQVDSGKNLTKYELIKRAIKRGERRMRSINAMLQSSSGIETPVYAGDGEYLMNVAIGTPDSSFSAIMDTGSDLIWTQCEPCTQCFSQPTPIFNPQDSSSFSTLPCESQYQCQLPSETCNNNECQYTYGYGDGSTTGGYMATETFTFETSSVPNIAFGCGEDNQFGQGNGAGLIGMGWGPLSLPSQLGVGQFSYCMTSYGSSSPSTLALGSAASGVPEGSPSTTLIHSSLNPTYYYITLQGITVGGDNLGIPSSTFQLQDDGTGGMIIDSGTTTLTYLPQDAYNAVAQAFTDQINLPTVDESSSGLSTCFQQPSDGSTVQVPEISMQFDGGVLNLGEQNILISPAEGVICLAMGSSSQLGISIFGNIQQQETQVLYDLQNLAVSFVPTQCGAS |
| <b>Research Area</b>     | Others                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Names</b>      | nep2                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Expression Region</b> | 25-438aa                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.                                                                                                                                                                                                                                                                                                                             |
| <b>Tag Info</b>          | C-terminal 10xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Mol. Weight</b>       | 45.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Length</b>    | Full Length                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Image</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                |



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



The purity of nep2 was greater than 90% as determined by SEC-HPLC

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.