# Recombinant Human Transforming growth factor beta activator LRRC33 (NRROS), partial

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| **Product Code** | CSB-EP801264HU |
| **Relevance** | Negative regulator of reactive oxygen species (ROS) that limits ROS production by phagocytes during inflammatory response, thereby playing a role during host defense. Acts via direct interaction with CYBB/NOX2 monomer that impairs interaction between CYBB/NOX2 and CYBA/p22-phox and formation of a stable NOX2 complex. May play a critical role in desensitizing TLR signaling through inhibition of Toll-like receptor-mediated NF-kappa-B activation and cytokine production. |
| **Abbreviation** | Recombinant Human NRROS protein, partial |
| **Storage** | 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. |
| **Uniprot No.** | Q86YC3 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | Greater than 85% as determined by SDS-PAGE. |
| **Sequence** | WRNRSGTATAASQGVCKLVGGAADCRGQSLASVPSSLPPHARMLTLDANPL KTLWNHSLQPYPLLESLSLHSCHLERISRGAFQEQGHLRSLVLGDNCLSENYE ETAAALHALPGLRRLDLSGNALTEDMAALMLQNLSSLRSVSLAGNTIMRLDDS VFEGLERLRELDLQRNYIFEIEGGAFDGLAELRHLNLAFNNLPCIVDFGLTRLRV LNVSYNVLEWFLATGGEAAFELETLDLSHNQLLFFPLLPQYSKLRTLLLRDNNM GFYRDLYNTSSPREMVAQFLLVDGNVTNITTVSLWEEFSSSDLADLRFLDMSQ NQFQYLPDGFLRKMPSLSHLNLHQNCLMTLHIREHEPPGALTELDLSHNQLSE LHLAPGLASCLGSLRLFNLSSNQLLGVPPGLFANARNITTLDMSHNQISLCPLP AASDRVGPPSCVDFRNMASLRSLSLEGCGLGALPDCPFQGTSLTYLDLSSNW GVLNGSLAPLQDVAPMLQVLSLRNMGLHSSFMALDFSGFGNLRDLDLSGNCL TTFPRFGGSLALETLDLRRNSLTALPQKAVSEQLSRGLRTIYLSQNPYDCCGV DGWGALQHGQTVADWAMVTCNLSSKIIRVTELPGGVPRDCKWERLDLGL |
| **Research Area** | Others |
| **Source** | E.coli |
| **Target Names** | NRROS |
| **Protein Names** | Leucine-rich repeat-containing protein 33LRRC33 |
| **Expression Region** | 19-650aa |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | N-terminal 10xHis-tagged and C-terminal Myc-tagged |

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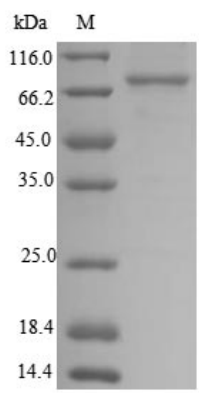
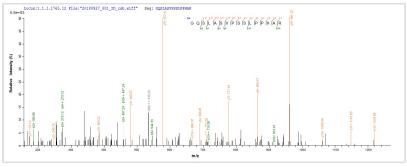
| **Mol. Weight** | 74.5 kDa |
| **Protein Length** | Partial |

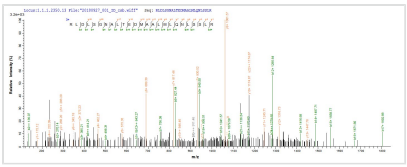
**Image**




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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP801264HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) NRROS.



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**Description**

The production of this recombinant Human NRROS protein is just like all recombinant proteins. The process involved transfecting E.coli cells with DNA vector containing the template of recombinant DNA. The E.coli cells containing the template were then cultured so that they could transcribe and translate the NRROS protein. N-terminal 10xHis tag & C-terminal Myc tag was used in the process. The purity is 85% determined by SDS-PAGE.

The NRROS gene provides instructions for making a protein called transforming growth factor-beta activator LRRC33(also named leucine-rich repeat-containing protein 33Curated or negative regulator of reactive oxygen species). LRRC33 protein is a single-pass transmembrane protein involved immune response, superoxide metabolic process and transforming growth factor-beta receptor signaling pathway. LRRC33, a homologous protein of the pro-TGF-β1 binding protein GARP (LRRC32), is covalently linked to the prodomain of TGF-β1, and highly expressed microglial cells in the central nervous system (CNS).

**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.

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