# Recombinant Bradyrhizobium sp. Formamidase (amiF)

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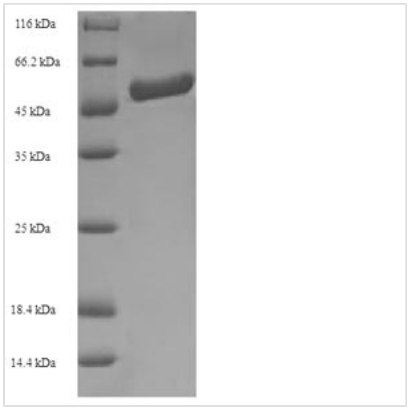
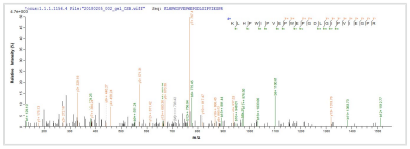
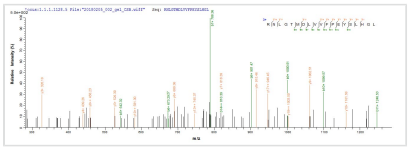
| **Product Code** | CSB-EP397462BPF |
| **Relevance** | Is an aliphatic amidase with a restricted substrate specificity, as it only hydrolyzes formamide. |
| **Abbreviation** | Recombinant Bradyrhizobium sp. amiF protein |
| **Storage** | The shelf life is related to many factors, storage state, buffer 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.** | A4Z3G9 |
| **Alias** | Formamide amidohydrolase |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Bradyrhizobium sp. (strain ORS278) |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Sequence** | MNGLGGLNKSEHGVVIGLVQLQLPVVVTKEDLAKQTEKIVWMVGKARRNLGT MDLVVFPEYSLHGLSMDTNPEIMCRLDGPEVAAFKQACIDNKIWGCFSIMEYN PDGNPYNSGLIIDSNGEIKLYYRKLHPWIPVEPWEPGDLGIPVIEGPRGAKIALII CHDGMFPEMARECAYKGAEIMIRTAGYTAPIRDSWRFTNQANAFQNLMVTAN VCMCGSDGSFDSMGEGMIVNFDGSILAHGTTGRADEIITAEVRPDLVREARIG WGVENNIYQLWHRGYVAVKGGAMDCPYTFMHDMVAGTYRLPWEDQVKITD GTSCGFPAPTRVFGKMAKAAE |
| **Research Area** | Others |
| **Source** | E.coli |
| **Target Names** | amiF |
| **Expression Region** | 1-337aa |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | N-terminal 6xHis-SUMO-tagged |
| **Mol. Weight** | 53.2kDa |
| **Protein Length** | Full Length |
| **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-EP397462BPF could indicate that this peptide derived from E.coli-expressed Bradyrhizobium sp. (strain ORS278) amiF.



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## Description

Constructing a plasmid encoding the Bradyrhizobium sp. (strain ORS278) amiF protein (1-337aa) is the initial step in the general approach to express the recombinant Bradyrhizobium sp. (strain ORS278) amiF protein. The plasmid is then transformed into e.coli cells. Positive e.coli cells are selected and cultured, protein expression is induced, and cells are lysed. The protein is fused with a N-terminal 6xHis-SUMO tag. The resulting recombinant Bradyrhizobium sp. (strain ORS278) amiF protein is then purified through affinity purification, and SDS-PAGE analysis is carried out to verify the presence and assess the purity of the protein. Its purity exceeds 90%.

## 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.