

Datasheet for ABIN7547011
GAD Protein (AA 1-594) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GAD (GAD1)
Protein Characteristics:	AA 1-594
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAD protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GAD1 Protein expressed in mammalian cells.
Sequence:	<p>MASSTPSSSA TSSNAGADPN TTNLRPTTYD TWCGVAHGCT RKLGLKICGF LQRTNSLEEK SRLVSAFKER QSSKNLLSCE NSDRDARFRR TETDFSNLFA RDLLPAKNGE EQTVQFLLEV VDILLNYVRK TFDRSTKVLD FHHPHQLLEG MEGFNLELSD HPESLEQILV DCRDTLKYGV RTGHPRFFNQ LSTGLDIIGL AGEWLTSTAN TNMFTYEIAP VFVLMEQITL KKMREIVGWS SKDGDGIFSP GGAISNMYSI MAARYKYFPE VKTKGMAAVP KLVLFITSEQS HYSIKKAGAA LGFGLDNVIL IKCNERGKII PADFEAKILE AKQKGYVPFY VNATAGTTVY GAFDPIQEIA DICEKYNLWL HVDAAWGGGL LMSRKHRHKL NGIERANSVT WNPBKMMGVL LQCSAILVKE KGILQGCNQM CAGYLFQPK QYDVSYDTGD KAIQCGRHVD IFKFWLMWKA KGTGVGFENQI NKCLELAEYL YAKIKNREEF EMVFNGEPEH TNVCFWYIPQ SLRGVPDSPQ RREKLHKVAP KIKALMMESG TTMVGYQPQG DKANFFRMVI SNPAATQSDI DFLIEEIERL GQDL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you</p>

Product Details

have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: GAD (GAD1)

Alternative Name: GAD1 ([GAD1 Products](#))

Background: Glutamate decarboxylase 1 (EC 4.1.1.15) (67 kDa glutamic acid decarboxylase) (GAD-67) (Glutamate decarboxylase 67 kDa isoform),FUNCTION: Catalyzes the synthesis of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA) with pyridoxal 5'-phosphate as cofactor. {ECO:0000269|PubMed:10671565, ECO:0000269|PubMed:17384644}., FUNCTION: [Isoform 3]: Enzymatically inactive as glutamate decarboxylase. {ECO:0000269|PubMed:10671565}.

Molecular Weight: 66.9 kDa

UniProt: [Q99259](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months