

Datasheet for ABIN7561738
HOMER2 Protein (AA 1-354) (His tag)



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Overview

Quantity:	1 mg
Target:	HOMER2
Protein Characteristics:	AA 1-354
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HOMER2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Homer2 Protein expressed in mammalian cells.
Sequence:	<p>MGEQPIFTTR AHVFQIDPST KKNWVPASKQ AVTVSYFYDV TRNSYRIISV DGAKVIINST ITPNMTFTKT SQKFGQWADS RANTVFGLGF SSELQLTKFA EKQEVREAA RLARDKSQEK TETSSNHSQE SGCETPSSTQ ASSVNGTDE KASHASPADT HLKSENDKLK IALTQSAANV KKWEMELQTL RESNARLTTA LQESAASVEQ WKRQFSICRD ENDRLRSKIE ELEEQCSEIN REKEKNTQLK RRIEELESEV RDKEMELKDL RKQSEIIPQL MSECYVSEK LEAAERDNQN LEDKVRSLKT DIEESKYRQR HLGELKSFL EVLGKIDDL HDFRRGLSKL GTDN 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 have a special request, please contact us.</p>
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:

Product Details

- 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)
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Grade:	custom-made
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Target Details

Target:	HOMER2
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Alternative Name:	Homer2 (HOMER2 Products)
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Background:	Homer protein homolog 2 (Homer-2) (Cupidin) (VASP/Ena-related gene up-regulated during seizure and LTP 2) (Vesl-2),FUNCTION: Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNM3, RYR1, RYR2, SHANK1 and SHANK3. By physically linking GRM1 and GRM5 with ER-associated ITPR1 receptors, it aids the coupling of surface receptors to intracellular calcium release. May also couple GRM1 to PI3 kinase through its interaction with AGAP2 (By similarity). Isoforms can be differently regulated and may play an important role in maintaining the plasticity at glutamatergic synapses (By similarity) Required for normal hearing (PubMed:25816005). Negatively regulates T cell activation by inhibiting the calcineurin-NFAT pathway. Acts by competing with calcineurin/PPP3CA for NFAT protein binding, hence preventing NFAT activation by PPP3CA (By similarity). {ECO:0000250 UniProtKB:Q9NSB8, ECO:0000269 PubMed:25816005}.
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Molecular Weight:	40.6 kDa
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UniProt:	Q9QWW1
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Target Details

Pathways: [Synaptic Membrane, Regulation of G-Protein Coupled Receptor Protein Signaling](#)

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