# **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 1-354aa

UniProt No. Q86YM7

NCBI Accession No. NP\_004263

## **Alternative Names**

HOMER, Homer protein homolog 1, HOMER1, HOMER1A, HOMER1B, HOMER1C, Neuronal immediate early gene, SYN47, Ves 1

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

44.5 kDa (391aa) confirmed by MALDI-TOF

**Concentration** 1mg/ml (determined by Bradford assay)

#### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl 20% glycerol, and 1mM DTT

**Purity** > 90% by SDS-PAGE

**Tag** His-Tag

Application SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

#### Description

Homer 1 (Homer protein homolog 1) belongs to Homer family of proteins that regulate signal transduction through, and the trafficking of, glutamate receptors, as well as maintain and regulate extracellular glutamate levels in corticolimbic brain regions. The Homer 1 is enriched at excitatory synapses and binds group 1 metabotropic glutamate receptors (mGluRs). Recombinant Homer 1 protein was expressed in E. coli and purified by using conventional chromatography techniques.



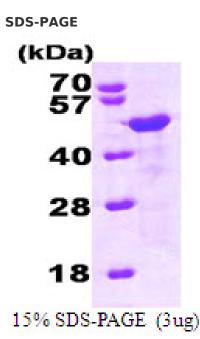
## **Amino acid Sequence**

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMGE QPIFSTRAHV FQIDPNTKKN WVPTSKHAVT VSYFYDSTRN VYRIISLDGS KAIINSTITP NMTFTKTSQK FGQWADSRAN TVYGLGFSSE HHLSKFAEKF QEFKEAARLA KEKSQEKMEL TSTPSQESAG GDLQSPLTPE SINGTDDERT PDVTQNSEPR AEPTQNALPF SHSSAISKHW EAELATLKGN NAKLTAALLE STANVKQWKQ QLAAYQEEAE RLHKRVTELE CVSSQANAVH THKTELNQTI QELEETLKLK EEEIERLKQE IDNARELQEQ RDSLTQKLQE VEIRNKDLEG QLSDLEQRLE KSQNEQEAFR NNLKTLLEIL DGKIFELTEL RDNLAKLLEC S

## **General References**

Szumlinski KK., et al. (2008) Biochem Pharmacol. 75(1):112-133. Roche KW., et al. (1999) J Biol Chem. 274(36):25953-7.

# DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

