

# Product information



## Homer 1, 1- 354 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0313

**Full name:** Homer protein homolog 1

**NCBI Accession No.:** NP\_004263

**Synonyms:** HOMER, HOMER1A, HOMER1B, HOMER1C, SYN47

**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.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl

20% glycerol, and 1 mM DTT

**Molecular Weight:** 44.5 kDa (391 aa)

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

**Concentration:** 1.0 mg/ml (determined by Bradford assay)

(kDa)

70

57

40

28

18

15% SDS-PAGE (3ug)

### Sequences of amino acids:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMGE QPIFSTRAHV FQIDPNTKKN WVPTSKHAVT VSYFYDSTRN VYRIISLDGS KAIINSTITP  
NMTFTKTSQK FGQWADSRAN TVYGLGFSSE HHLSKFAEKF QEFKEAARLA KEKSQEKMEL TSTPSQESAG GDLQSP LTE SINGTDDERT PDVTQNSEPR  
AEPTQNALPF SHSSAISKHW EAE L AT L KGN NAKLTAALLE STANVKQWKQ QLAAYQEEAE RLHKRVTELE CVSSQANAVH THKTELNQT I QELEETLKLK  
EEEIERLKQE IDNARELQEQ RDSLTQKLQE VEIRNKDLEG QLSDEQRLE KSQNEQEA FR NNLKTLLEIL DGKIFELTEL RDNLAKLLEC S

### General references:

Szumliński KK., *et al.* (2008) *Biochem Pharmacol.* 75(1):112–133.

Roche KW., *et al.* (1999) *J Biol Chem.* 274(36):25953-7.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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Avoid repeated freezing and thawing cycles.

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