

**Homer 1, 1- 354 aa, Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP02482**

3th Edition

**Synonyms:**Homer protein homolog 1, 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).

**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)

**Sequences:**

```
MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSHMGEQPIFSTRAHVFDQIDPNTKKNWVPTSKHAVTVS
YFYDSTRNVYRIISLDGSKAIINSTITPNMTFTKTSQKFGQWADSRANTVYGLGFSSEHHLSKFAEKQEFKEAARLA
KEKSQEKMELTSTPSQESAGGDLQSPLTPESINGTDDERTPDVTQNSEPRAEPTQNALPFSHSSAISKHWAEALAT
LKGNNAKLTAALLESTANVKQWKQQLAAYQEEAERLHKRVTELECVSSQANAVHTHKTELNQTIQEELEETLKLKEE
EIERLKQEIDNARELQEQRDSLTKLQVEVEIRNKDLEGQLSDLEQRLEKSQNEQEAFRNNLKTLLEILDGKIFELTEL
RDNLAKLLECS
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**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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. Avoid repeated freezing and thawing cycles.