

GABRA1 Protein, Human, Recombinant (His)

General Information

Synonyms:	Gamma-aminobutyric acid receptor subunit alpha-1;GABA(A) receptor subunit alpha-1 (GABAAR subunit alpha-1);GABRA1
Protein Construction:	28-251 aa
Species:	Human
Expression Host:	E. coli
Accession:	P14867
Molecular Weight:	29.9 kDa (predicted)
AA Sequence:	QPSLQDELKDNTTVFTRILDRLLDGYDNRLRPLGERVTEVKTDIFVTSFGPVSVDHDMEYTDVFFRQSWKDER LKFKGPMTVLRLLNNLMASKIWTPDTFFHNGKKSVAHNMTMPNKLLRITEDGTLTYMRLTVRAECPMHLEDF PMDAHACPLKFGSYAYTRAENVYEWTRPARSVVAEDGSRLNQYDLLGQTVDSGIVQSSTGEYVVMTHF HLKRRKIG

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Ligand-gated chloride channel which is a component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the brain. Plays an important role in the formation of functional inhibitory GABAergic synapses in addition to mediating synaptic inhibition as a GABA-gated ion channel. The gamma2 subunit is

necessary but not sufficient for a rapid formation of active synaptic contacts and the synaptogenic effect of this subunit is influenced by the type of alpha and beta subunits present in the receptor pentamer. The alpha1/beta2/gamma2 receptor and the alpha1/beta3/gamma2 receptor exhibit synaptogenic activity. GABRA1-mediated plasticity in the orbitofrontal cortex regulates context-dependent action selection. Functions also as histamine receptor and mediates cellular responses to histamine.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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