

CYSLTR1 Protein, Human, Recombinant (His)

General Information

Synonyms:	G-protein coupled receptor HG55;CYSLT1;Cysteinyl leukotriene receptor 1;HMTMF81;CysLTR1;Cysteinyl leukotriene D4 receptor (LTD4 receptor)
Protein Construction:	1-337 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9Y271
Molecular Weight:	44.6 kDa (predicted)
AA Sequence:	MDETGNLTVSSATCHDTIDDFRNQVYSTLYSMISVVGFFGNGFVLYVLIKTYHKKSAFQVYMINLAVADLLCVC TLPLRVVYVHKGIWLFGLCRLSTYALYVNLVCSIFFMTAMSFRCIAIVFPVQINLVTQKKARFVCVGIWIF VILTSSPFLMAKPQKDEKNNTKCFEPPQDNQTKNHVLLVHYVSLFVGFIIIPFVIIIICYTMIILTLLKSMKKNLSS HKKAIGMIMVVTA AFLVSFMPYHIQRTIHLHFLHNETKPCDSVLRMQKSVVITLSLAASNCCFDPLLYFFSGGN FRKRLSTFRKHSLSSVTYVPRKKASLPEKGEEICKV

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/ μ g of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

A DRUG SCREENING EXPERT

Receptor for cysteinyl leukotrienes mediating bronchoconstriction of individuals with and without asthma. Stimulation by LTD4 results in the contraction and proliferation of smooth muscle, edema, eosinophil migration and damage to the mucus layer in the lung. This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system. The rank order of affinities for the leukotrienes is LTD4 >> LTE4 = LTC4 >> LTB4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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