

MRAP Protein, Human, Recombinant (hFc)

General Information

Synonyms:	FALP;FGD2;melanocortin 2 receptor accessory protein;GCCD2;B27;C21orf61
Protein Construction:	A DNA sequence encoding the human MRAP (NP_848932.1) (Tyr59-Ser172) was expressed with the Fc region of human IgG1 at the N-terminus. Predicted N terminal: Glu
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8TCY5-4
Molecular Weight:	40.9 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

MRAP (Melanocortin 2 Receptor Accessory Protein) is a Protein Coding gene. This gene encodes a melanocortin receptor-interacting protein. It belongs to the MRAP family. MRAP, which contains a single transmembrane domain, has a unique structure, an antiparallel homodimer. MRAP is a single transmembrane domain accessory protein and a critical component of the hypothalamo pituitary-adrenal axis. MRAP is highly expressed in the adrenal gland and is essential for adrenocorticotropin hormone (ACTH) receptor expression and function. In adrenal cells,

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MRAP is essential for adrenocorticotrophic hormone (ACTH)-induced activation of the cAMP/protein kinase A (PKA) pathway by melanocortin 2 receptor (MC2R), leading to glucocorticoid production and secretion. Diseases associated with MRAP include Glucocorticoid Deficiency 2 and Glucocorticoid Deficiency 1.

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