Recombinant Rat Migration Inhibitor Factor

Catalog No: #AP60496

Package Size: #AP60496-1 10ug #AP60496-2 100ug #AP60496-3 500ug

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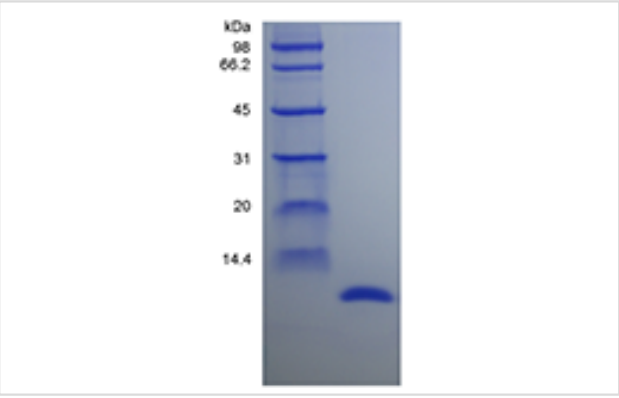
Description

Product Name	Recombinant Rat Migration Inhibitor Factor
Host Species	Escherichia coli.
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Other Names	MIF, Glutathione-binding 13 kDa Protein, L-dopachrome Isomerase, L-dopachrome Tautomerase, Phenylpyruvate Tautomerase
Uniprot	P30904
GeneID	81683
Calculated MW	Approximately 12.5 kDa, a single non-glycosylated polypeptide chain containing 115 amino acids.
Target Sequence	MPMFIVNTNV PRASVPEGFL SELTQQLAQA TGKPAQYIAV HVVPDQLMTF SGTSDPCALC SLHSIGKIGG AQNRNYSKLL CGLLSDRLHI SPDRVYINYY DMNAANVGWN GSTFA
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM Tris, pH 8.0, 150 mM NaCl, 3 % trehalose.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Macrophage migration inhibitory factorB (MIF or MMIF), also named asB glycosylation-inhibiting factor (GIF),B L-dopachrome isomerase, orB phenylpyruvate tautomerase, is aB proteinB encoded by the MIFB gene. It is released from white blood cells by bacterial antigen stimulation to trigger an acute immune response, or by glucocorticoids to counter-act the inhibitory effects of glucocorticoids on immune system. MIF is a homotrimer of which each subunit contains 115 amino acids. As mentioned above, MIF is involved in the innate immune response to bacterial pathogens and counter-acts the anti-inflammatory activity of glucocorticoids. Furthermore, it also plays a role as mediator in regulating the function of macrophages in host defense and has phenylpyruvate tautomerase and dopachrome tautomerase activity in vitro. Rat MIF is 99 %, 90 %, 89 %, and 89 % a.a. identical to human, murine, porcine and bovine, respectively.

Note: This product is for in vitro research use only