Product Datasheet

Recombinant Rat Migration Inhibitor Factor

Catalog No: #AP60496

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

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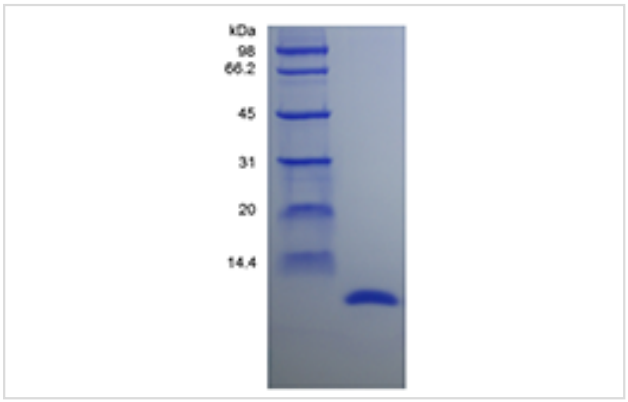
Description

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
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. -□A minimum of 12 months from date of receipt, when stored at ≤-20 °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 factorθ• ½(MIF or MMIF), also named asθ• ½glycosylation-inhibiting factor (GIF),θ• ½L-dopachrome isomerase, orθ• ½phenylpyruvate tautomerase, is aθ• ½proteinθ• ½encoded by the MIFθ• ½gene. 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 and is not intended for use in humans or animals.