

Recombinant Mouse SAM domain and HD domain-containing protein 1(SAMHD1),partial

Catalog No: #AP70749

Package Size: #AP70749-1 20ug #AP70749-2 100ug #AP70749-3 1mg

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Description

Product Name	Recombinant Mouse SAM domain and HD domain-containing protein 1(SAMHD1),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:395-626aaSequence Info:Partial
Other Names	Interferon-gamma-inducible protein Mg11SAM domain and HD domain-containing protein 1
Accession No.	Q60710
Calculated MW	30.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	DIMITDAFLKADPYVEITGTAGKKFRISTAIDDMEAFTKLTDNIFLEVLHSTDPQLSEASILRNIECRNLYKYLGE TQPKREKIRKEEYERLPQEVAKAKPEKAPDVELKAEDFIVDVINVVDYGMEDKNPIDRVHFYCKSNSKQAVRINK EQVSQLLPEKFAEQLIRVYCKKKDGKSLDAAGKHFFVQWCALRDFTKPQDGDIIAPLITPLKWNNTSSCLQEVS KVKTCLK
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Host restriction nuclease that blocks early-stage virus replication in dendritic and other myeloid cells. Likewise, suppresses LINE-1 retrotransposon activity. May function by reducing the cellular dNTP levels to levels too low for retroviral reverse transcription to occur. May play a role in mediating proinflammatory responses to TNF-alpha signaling .

References

Mutations involved in Aicardi-Goutieres syndrome implicate SAMHD1 as regulator of the innate immune response.Rice G.I., Bond J., Asipu A., Brunette R.L., Manfield I.W., Carr I.M., Fuller J.C., Jackson R.M., Lamb T., Briggs T.A., Ali M., Gornall H., Couthard L.R., Aeby A., Attard-Montalto S.P., Bertini E., Bodemer C., Brockmann K. , Brueton L.A., Corry P.C., Desguerre I., Fazzi E., Cazorla A.G., Gener B., Hamel B.C.J., Heiberg A., Hunter M., van der Knaap M.S., Kumar R., Lagae L., Landrieu P.G., Lourenco C.M., Marom D., McDermott M.F., van der Merwe W., Orcesi S., Prendiville J.S., Rasmussen M., Shalev S.A., Soler D.M., Shinawi M., Spiegel R., Tan T.Y., Vanderver A., Wakeling E.L., Wassmer E., Whittaker E., Lebon P., Stetson D.B., Bonthron D.T., Crow Y.J.Nat. Genet. 41:829-832(2009)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.