Recombinant Human Mitochondrial brown fat uncoupling protein 1(UCP1)

Catalog No: #AP70902

Package Size: #AP70902-1 20ug #AP70902-2 100ug #AP70902-3 1mg



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Human Mitochondrial brown fat uncoupling protein 1(UCP1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-307aaSequence Info:Full Length
Other Names	Solute carrier family 25 member 7Thermogenin
Accession No.	P25874
Calculated MW	48.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	GGLTASDVHPTLGVQLFSAGIAACLADVITFPLDTAKVRLQVQGECPTSSVIRYKGVLGTITAVVKTEGRMKLY
	SGLPAGLQRQISSASLRIGLYDTVQEFLTAGKETAPSLGSKILAGLTTGGVAVFIGQPTEVVKVRLQAQSHLHGI
	KPRYTGTYNAYRIIATTEGLTGLWKGTTPNLMRSVIINCTELVTYDLMKEAFVKNNILADDVPCHLVSALIAGFCA
	TAMSSPVDVVKTRFINSPPGQYKSVPNCAMKVFTNEGPTAFFKGLVPSFLRLGSWNVIMFVCFEQLKRELSKS
	RQTMDCAT
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

UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial mbrane, thus uncoupling oxidative phosphorylation from ATP synthesis. As a result, energy is dissipated in the form of heat.

References

Uncoupling protein 1 and 3 polymorphisms are associated with waist-to-hip ratio.Herrmann S.M., Wang J.G., Staessen J.A., Kertmen E., Schmidt-Petersen K., Zidek W., Paul M., Brand E.J. Mol. Med. 81:327-332(2003) Research Topic:Transport

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