Nanodisc Human MSHR-Strep Protein



HDFP1078

Product Information

Product SKU:	HDFP1078	Expression Host:	HEK293		Size:	10µg
Target:	MSHR	Tag:	C-Flag&Str	тер Тад		
Additional Infor Conjugate: Molecular Weig	Unconjugate	ed Unip full length MSHR-Str	e rot ID: Protein ha	Q01726 as a MW of	⁻ 34.7 kDa	

Protein Information

- Background: This intronless gene encodes the receptor protein for melanocyte-stimulating hormone (MSH). The encoded protein, a seven pass transmembrane G protein coupled receptor, controls melanogenesis. Two types of melanin exist: red pheomelanin and black eumelanin. Gene mutations that lead to a loss in function are associated with increased pheomelanin production, which leads to lighter skin and hair color. Eumelanin is photoprotective but pheomelanin may contribute to UVinduced skin damage by generating free radicals upon UV radiation. Binding of MSH to its receptor activates the receptor and stimulates eumelanin synthesis. This receptor is a major determining factor in sun sensitivity and is a genetic risk factor for melanoma and non-melanoma skin cancer. Over 30 variant alleles have been identified which correlate with skin and hair color, providing evidence that this gene is an important component in determining normal human pigment variation. [provided by RefSeq, Jul 2008] Synonyms: CMM5, MSH-R, SHEP2 **Protein Description:** Human MSHR-Strep full length protein-synthetic nanodisc Formulation: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please
 - see Certificate of Analysis for specific instructions. Do not use solvents with a pH

	below 6.5 or those containing high concentrations of divalent metal ions (greater		
	than 5 mM) in subsequent experiments.		
Protein Pathways:	GPCRDB Class A Rhodopsin-like, Peptide GPCRs, Cancer.		
Protein Families:	GPCR, Transmembrane, Druggable Genome.		
Usage:	Research use only		
Storage & Shipping:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not		
	intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing		
	and thawing). Lyophilized proteins are shipped at ambient temperature.		