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DATASHEET

Product overview

Name SHLP2 Cat No HB8044 **Biological action** Activator >95% **Purity**

Description Endogenous mitochondrial-derived peptide

Biological Data

Biological description Endogenous mitochondrial-derived peptide which is implicated in various biological processes such as

aging and neurodegeneration. Enhances mitochondrial function and cell survival. Induces β-Arrestin recruitment to CXCR7 (EC₅₀ = 0.97M) and directly binds to the receptor to cause its internalization. Suppresses food intake, prevents diet-induced obesity in mice and improves glucose tolerance and

insulin sensitivity in vivo.

Solubility & Handling

Soluble in PBS (1mg/ml), and in DMSO Solubility overview

Storage instructions

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

3015.58 **Molecular Weight** Molecular Formula $C_{142}H_{214}N_{36}O_{35}S$

References

Naturally occurring mitochondrial-derived peptides are age-dependent regulators of apoptosis, insulin sensitivity, and inflammatory markers.

Cobb LJ et al (2016) Aging 8

PubMedID 27070352