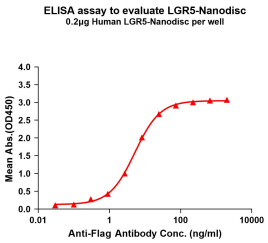
Synthetic Nanodisc Human LGR5 Protein (A318434)

Specifications:

Name:	Synthetic Nanodisc Human LGR5 Protein
Description:	Synthetic nanodiscs offer a stable and biologically relevant environment that closely mimics cell membranes and enables full-length transmembrane human LGR5 protein to be purified and analysed in vitro.
Applications:	ELISA, SDS-PAGE
Expression System:	HEK293 cells
Nature:	Synthetic
Protein Species:	Human
Protein Length:	Full length protein.
Tag:	C-terminal Flag Tag
Molecular Weight:	Full length human LGR5 protein has a MW of 100.0 kDa.
Conjugate:	Unconjugated
Product Form:	Lyophilized
Concentration:	Reconstitution dependent.
Formulation:	Lyophilized from nanodisc solubilization buffer (20mM Tris-HCl, 150mM NaCl, pH 8.0). Normally 5%-8% Trehalose is added as a protectant before lyophilization.
Storage:	Shipped at 4°C. Lyophilized: Store at -20°C to -80°C. Reconstituted: Aliquot and store at -80°C. Product is stable for one year. Avoid freeze/thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

Images:



ELISA plates were pre-coated with Synthetic Nanodisc Human LGR5 Protein (A318434) (0.2 μg/well). Serial diluted Anti-Flag Tag Antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From this data, the EC50 for Anti-Flag Tag Antibody binding with LGR5-Nanodisc is 5.199 μg/ml.

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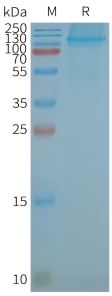
Images continued:



Synthetic Nanodisc Human LGR5 Protein (A318434) on SDS-PAGE under reducing conditions.

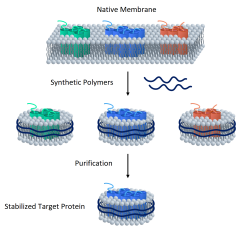


Diagram showing how synthetic nanodiscs containing full-length multi-pass transmembrane proteins in a phospholipid bilayer are generated from native cell membranes.