

Human FOLR1 Protein; hFc Tag

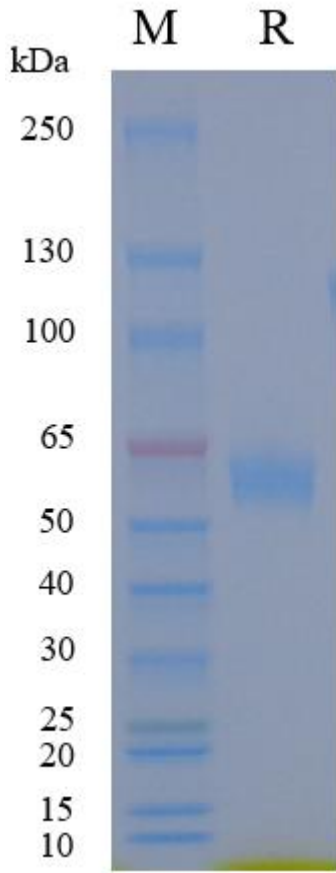
Product Information

Product Name	Human FOLR1 Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87509RP-100 / 100 μg GM-87509RP-1000 / 1 mg

Protein Information

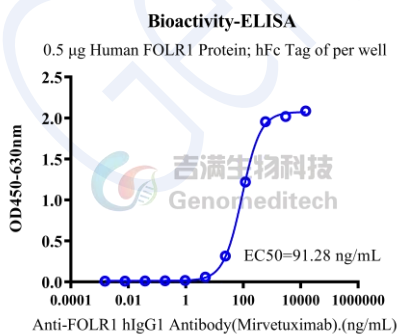
Alternative Names	FBP, FOLR, FR α
Source	Human FOLR1 Protein; hFc Tag (GM-87509RP) is expressed from human 293 cells (HEK-293). It contains AA Arg 25 - Met 233 (Accession # P15328-1). This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	50.5 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	FOLR1 protein is a folate-binding protein that belongs to the folate receptor (FR) family. It is encoded by the FOLR1 gene and is a protein associated with cellular folate uptake and metabolism. FOLR1 protein was initially identified in placental and renal tissues and later detected in various epithelial tissues and cancer cells. FOLR1 protein regulates the cellular internalization of folate and its derivatives by binding to folic acid with high affinity, facilitating one-carbon transfer reactions essential for nucleotide synthesis and DNA replication. Epithelial cells are important components of many organs, with critical functions in nutrient absorption, barrier maintenance, and tissue homeostasis, making them fundamental members of normal physiology. Research indicates that FOLR1 protein plays a significant role in supporting rapid cell division, maintaining cellular metabolism, and modulating tumor progression. Additionally, the expression of FOLR1 protein is associated with ovarian cancer, lung cancer, and other malignant diseases, as well as folate transport disorders, making it a potential target for cancer diagnosis and targeted therapy.

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human FOLR1 Protein; hFc Tag (Catalog # GM-87509RP) was immobilized at 5 μ g/ml (100 μ L/well). Increasing concentrations of Anti-FOLR1 hIgG1 Antibody (Mirvetuximab) (Catalog # GM-27354AB) were added.