InnoCyto Inc.
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Technical Data Sheet

PE Conjugated Human FOLR1 Protein (C-His)

Catalog Number: 802701, 802702
Size: 25 ug, 100 ug
Target Name: FOLR-1, FBP, FOLR, FR?
Regulatory Status: RUO

Product Details

Application: FC
Format: Liquid, PE
Expression Host: CHO
Species: Human
Sources: Human FOLR1 (Arg25-Met233) with C-terminus His Tag is expressed in CHO cells and conjugated to PE.
Accession Number: P15328
Molecular Weight: The protein has a predicted molecular weight of 28.6 kDa. Under DTT-reducing conditions, it migrates at approximately 35-45 kDa on SDS-PAGE prior to conjugation.
Affinity Tag: C-His
Formulation: 1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein
Endotoxin level: Not tested
Protein Concentration: 25μg size is bottled at 0.1mg/mL concentration. 100 μg size is bottled at lot specific concentration.
Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

Background Information

The FOLR1 gene encodes a protein that is a member of the folate receptor family, responsible for binding folic acid and its reduced derivatives, and transporting 5-methyltetrahydrofolate into cells. The protein is typically anchored to cell membranes via a glycosyl-phosphatidylinositol (GPI) linkage or exists in a soluble form. Mutations in FOLR1 are associated with neurodegeneration due to cerebral folate transport deficiency. This gene has multiple transcript variants due to alternative splicing and the presence of two promoters and various transcription start sites. Folate receptor ? (FR?), the key subunit of the folate receptor, is primarily expressed in epithelial cells and is selectively overexpressed in cancer types like breast and ovarian cancers. While normal cells rely on the reduced folate carrier for folate uptake, many carcinomas and myeloid leukemia cells overexpress FR? to support rapid cell division, reflecting their higher need for folate.