

Recombinant Human GPC3

Catalog#:AC80576

Derived from Human Cells

Description:

Recombinant Human Glypican-3 is produced by our Mammalian expression system and the target gene encoding Gln25-His559 is expressed with a 6His tag at the C-terminus.

Accession#:P51654

Known as: Glypican-3; GTR2-2; Intestinal protein OCI-5; MXR7; GPC3; OCI5

Formulation:

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

Storage:

Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$, stable for one year after receipt. Reconstituted protein solution can be stored at $2-8^{\circ}\text{C}$ for 2-7 days.

Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.

Reconstitution:

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Quality Control:

产品仅供科研!



Mol Mass:61.6 KDa

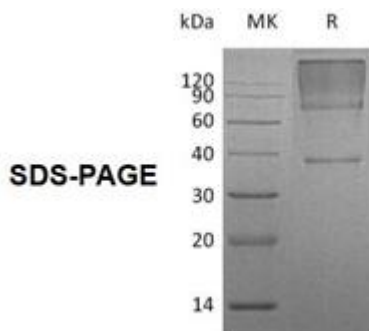
AP Mol Mass:70-150&38 KDa, reducing conditions.

Purity: Greater than 95% as determined by reducing SDS-PAGE.

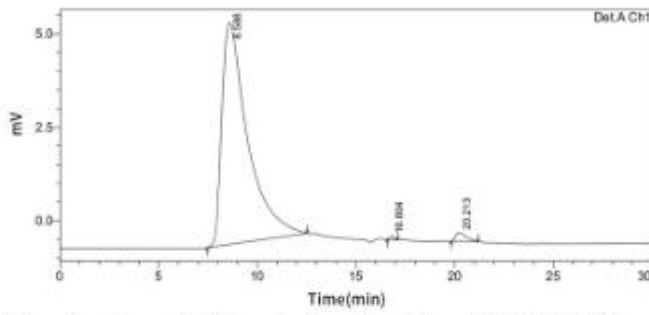
Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.

Background:

Glypican-3/GPC3 is a member of the glypican family. It belongs to the glypican family and is highly expressed in lung, liver, and kidney. It is a heparan sulfate proteoglycan, which is overexpressed in various neoplasms such as hepatocellular carcinoma, malignant melanoma, and testicular yolk sac tumor, and plays an important role in cell growth and differentiation. GPC3 function is tissue dependent. In some tissues, GPC3 acts as a tumor suppressor gene, whereas in others, it acts as an oncofetal protein. GPC3 is a reliable marker for hepatocellular carcinoma. The sensitivity and specificity exceeds both alpha-fetoprotein and hepatocyte-paraffin1. GPC3 immunohistochemistry can aid in the differentiation of testicular germ cell tumors, being expressed in all yolk sac tumors but not in seminomas. GPC3 expression has also been identified in some squamous cell carcinomas of the lung and clear cell carcinomas of the ovary. Glypican-3 is currently regarded as a tumor marker and potential target for immunotherapy.

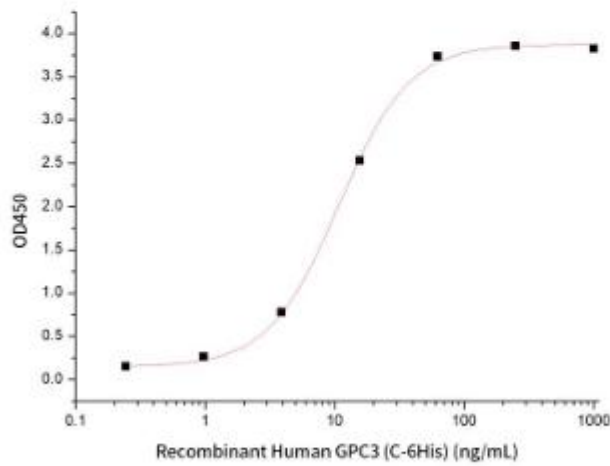


Purity-SEC-HPLC:



Greater than 95% as determined by SEC-HPLC.

Bioactivity-ELISA:



Immobilized Human FGFb (146AA) at 2 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) can bind Human GPC3 (C-6His). The EC50 of Human GPC3 (C-6His) is not higher than 50 ng/ml.