

# Human TYRO3 Protein

Cat. No. TYR-HM103



## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Human TYRO3 Protein is expressed from HEK293 with His tag at the C-Terminus.<br>It contains Ala41-Trp429.              |
| <b>Accession</b>        | Q06418   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 42.8 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.  |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC  |

## Formulation and Storage

|                    |  |
|--------------------|--|
| <b>Formulation</b> | Supplied as 0.22µm filtered solution in PBS (pH 7.4).  |
| <b>Storage</b>     | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

The TAM receptors (Tyro3, Axl and MerTK) are promising therapeutic targets on tumor-associated macrophages. The TAM receptors are a family of receptor tyrosine kinases with shared ligands Gas6 and Protein S that skew macrophage polarization towards a pro-tumor M2-like phenotype. In macrophages, the TAM receptors also promote apoptotic cell clearance, a tumor-promoting process called efferocytosis. The TAM receptors bind the "eat-me" signal phosphatidylserine on apoptotic cell membranes using Gas6 and Protein S as bridging ligands.

## Assay Data

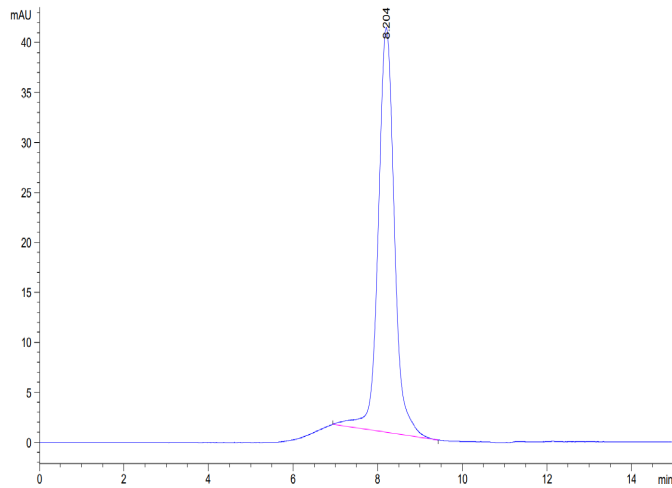
### Bis-Tris PAGE



Human TYRO3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

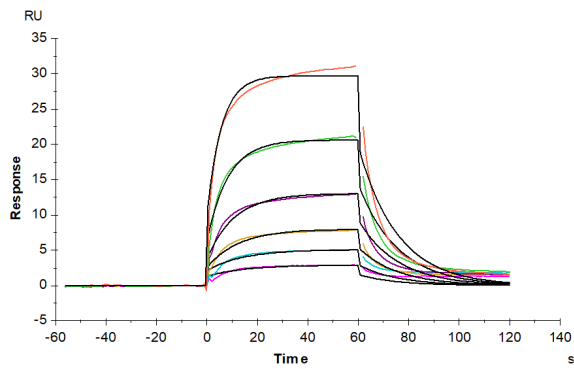
### SEC-HPLC

Assay Data



The purity of Human TYRO3 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human GAS6, His Tag immobilized on CM5 Chip can bind Human TYRO3, His Tag with an affinity constant of 2.36  $\mu\text{M}$  as determined in SPR assay (Biacore T200).