**Recombinant human Glutamate carboxypeptidase 2**

**Catalog Number: CSB-RP117294h**

|  |  |
| --- | --- |
| **Product Name：** | Recombinant human Glutamate carboxypeptidase 2 |
| **Catalog Number：** | CSB-RP117294h |
| **Relevance ：** | Has both folate hydrolase and N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activity. Has a preference for tri-alpha-glutamate peptides. In the intestine, required for the uptake of folate. In the brain, modulates excitatory neurotransmission through the hydrolysis of the neuropeptide, N-aceylaspartylglutamate (NAAG), thereby releasing glutamate. Isoform PSM-4 and isoform PSM-5 would appear to be physiologically irrelevant. Involved in prostate tumor progression.Also exhibits a dipeptidyl-peptidase IV type activity. In vitro, cleaves Gly-Pro-AMC. |
| **Mol. Weight：** | 80kD |
| **Product Info ：** | His-tagged |
| **Source：** | E.coli derived |
| **Images** |  |
| **Purity：** | >90%(SDS-PAGE) |
| **Storage Buffer：** | 20mM Tris-HCl, 0.5M Arg, PH 8.0,50% glycerol |
| **Storage ：** | Store at -20℃, for extended storage, conserve at -20℃ or -80℃. |
| **Notes ：** | Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week. |
| **AA sequence：** | ELKAENIKKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVELAHYDVLLSYPNKTHPNYISIINEDGNEIFNTSLFEPPPPGYENVSDIVPPFSAFSPQGMPEGDLVYVNYARTEDFFKLERDMKINCSGKIVIARYGKVFRGNKVKNAQLAGAKGVILYSDPADYFAPGVKSYPDGWNLPGGGVQRGNILNLNGAGDPLTPGYPANEYAYRRGIAEAVGLPSIPVHPIGYYDAQKLLEKMGGSAPPDSSWRGSLKVPYNVGPGFTGNFSTQKVKMHIHSTNEVTRIYNVIGTLRGAVEPDRYVILGGHRDSWVFGGIDPQSGAAVVHEIVRSFGTLKKEGWRPRRTILFASWDAEEFGLLGSTEWAEENSRLLQERGVAYINADSSIEGNYTLRVDCTPLMYSLVHNLTKELKSPDEGFEGKSLYESWTKKSPSPEFSGMPRISKLGSGNDFEVFFQRLGIASGRARYTKNWETNKFSGYPLYHSVYETYELVEKFYDPMFKYHLTVAQVRGGMVFELANSIVLPFDCRDYAVVLRKYADKIYSISMKHPQEMKTYSVSFDSLFSAVKNFTEIASKFSERLQDFDKSNPIVLRMMNDQLMFLERAFIDPLGLPDRPFYRHVIYAPSSHNKYAGESFPGIYDALFDIESKVDPSKAWGEVKRQIYVAAFTVQAAAETLSEVA |
| **References：** | "Molecular cloning of a complementary DNA encoding a prostate-specific membrane antigen."  Israeli R.S., Powell C.T., Fair W.R., Heston W.D.W.  Cancer Res. 53:227-230(1993) |