

Data Sheet

HDAC 6 (H611A), GST-Tag

Human, Recombinant, N-terminal GST-Tag

Catalog #: AMS.50066

Lot #: 171215-G

Conc.: 0.77 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20 and 20% Glycerol.

Stability: At least 6 months at -80°C . Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

Reference:

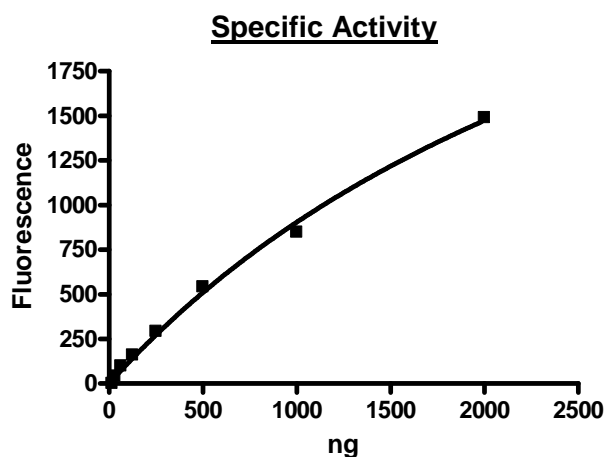
1. Li S. *et al.*, *Neurology*. 2010; **41(2)**: 112-6.
2. Strausberg, R.L. *et al.*, *Proc. Natl. Acad. Sci. U.S.A.* 2002; **99(26)**: 16899-16903.

Description: Human HDAC6 with H611A mutation (GenBank Accession No. NM_006044), full length with N-terminal GST tag, MW= 161 kDa, expressed in a baculovirus expression system. Protein was purified by affinity chromatography and gel filtration.

Specific Activity: 0.83 pmole/min/ μg
Assay Conditions: 25 mM Tris/HCl, pH 8.0, 137 mM NaCl, 2.7 mM KCl, 1 mM MgCl_2 , and 0.1 mg/ml BSA, 20 μM BPS HDAC substrate 3 (Catalog #50037), and HDAC6 H611A (15 – 1000 ng). Incubation condition: 30 min at 37°C followed by developing for 15 min at room temperature.

Application: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance



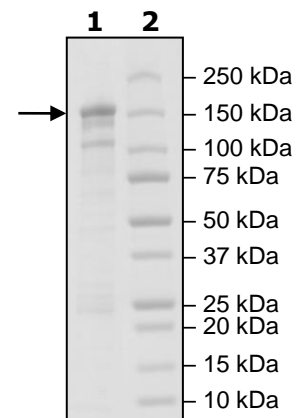
**4-20% SDS-PAGE
Coomassie staining**

Lane 1:
2 μg HDAC6(H611A)

Lane 2:
Protein Marker

MW: 161 kDa

Purity: $\geq 48\%$



Sequence

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNL
PYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAETSMLEGAVLDIRYGVSRIA
YSKDFETLKVDFLSKLPPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYM
DPMCLDAFPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDHPKSD
PMGHHHHHHGRRRASVAAGILVPRGSPGLDGIYARGIQMTSTGQDSTTTTRQRRSR
QNPQSPPQDSSVTSKRNIKKGAVPRSIPNLAEVKKKGKMKKLGQAMEEDLIVGLQ
GMDLNLEAEALAGTGLVLDEQLNEFHCLWDDSFPEGPERLHAIKEQLIQEGLLDR
CVSFQARFAEKEELMLVHSLEYIDLMETTQYMNEGELRVLADTYDSVYLHPNSYS
CACLASGSVLRLVDAVLGAEIRNGMAIIRPPGHHAQHSLMDGYCMFNHVAVAARY
AQQKHRIRRVLIVDWDVHHGQGTQFTFDQDPSVLYFSIHRYEQGRFWPHLKASNW
STTGFGGQGYTINVPWNQVGMRDADYIAAFLHVLLPVALEFQPQLVLAAGFDA
LQGDPAKEMAATPAGFAQLTHLLMGLAGGKLI LSLEGGYNLRALAEGVSASLHTL
LGDPCPMLESPGAPCRSAQASVSCALEALEPFWEVLVLRSTETVERDNMEEDNVEE
SEEEGPWEPPVLPILTWPVLQSRGTGLVYDQNMNHCNLWDSHHPEVPQIRLIMC
RLEELGLAGRCLTLTPRPATEAELLTCHSAEYVGHRLRATEKMKTRELHRESSNFD
SIYICPSTFACAQLATGAACRLVEAVLSGEVLNGAAVVRPPGHAAEQDAACGFCF
FNSVAVAAARHAQTI SGHALRILIVDWDVHHGNGTQHMFEEDPSVLYVSLHRYDHG
TFFPMGDEGASSQIGRAAGTGFTVNVAVWNGPRMGDADYLAAWHRLVLPPIAYEFNP
ELVLVSAGFDAARGDPLGGCQVSPGYAHLTHLLMGLASGRIILILEGGYNLTSI
SESMAACTRSLLDGPPPLTLPRPPLSGALASITETIQVHRRYWRSLRVMKVEDR
EGPSSSKLVTKKAPQPAKPRLAERMTTREKKVLEAGMGKVTSSASFGEESTPGQTN
SETAVVALTQDQPSEAATGGATLAQTI SEAAIGGAMLGQTTSEEAVGGATPDQTT
SEETVGGAILDQTTSEDAVGGATLGQTTSEEAVGGATLAQTTSEAMEGATLDQT
TSEEAPGGTELIQTPLASSTDHQTPTSVPVQGTTPQISPSTLIGSLRTLLELGSSES
QGASESQAPGEENLLGEAAGGQDMADSMMLMQSGRGLTDQAIIFYAVTPLPWCPLV
AVCPIPAAGLDVTQPCGDCGTIQENWVCLSCYQVYCGRYINGHMLQHHGNSGHPL
VLSYIDLAWCYQCAYVHHQALLDVKNIAHQNKFGEDMPHPH

Red: GST-tag

Blue: Short Linker including Thrombin Cleavage Site

Black: HDAC6 (aa 1-1215(end))_ NM_006044/NP_006035

Green: H216A mutation

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