

BRPF3 Protein, Human

Cat. No.:	HY-P702058
Synonyms:	BRPF3; Bromodomain and PHD finger-containing protein 3
Species:	Human
Source:	E. coli
Accession:	Q9ULD4 (D1056-G1195)
Gene ID:	27154
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	BRPF3, serving as a scaffold subunit in diverse histone acetyltransferase (HAT) complexes, including MOZ/MORF and HBO1, is instrumental in histone H3 acetylation activities. Particularly, in the HBO1 complex, BRPF3 plays a crucial role in directing the specificity of KAT7/HBO1 towards acetylation of histone H3 at 'Lys-14' (H3K14ac), thereby facilitating the initiation of DNA replication and promoting the activation of replication origins. As part of the MOZ/MORF complex, BRPF3 collaborates with key components such as ING5, KAT6A, KAT6B, and MEAF6. Moreover, BRPF3 is a vital member of specific HBO1 complexes composed of KAT7/HBO1, MEAF6, and ING4 or ING5. The direct interaction between BRPF3 and KAT7/HBO1 highlights its role as a critical mediator in these HAT complexes, shedding light on its involvement in the intricate regulation of histone acetylation and DNA replication processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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