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Produktinformation



Forschungsprodukte & Biochemikalien



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



FEN1 (human, recombinant)

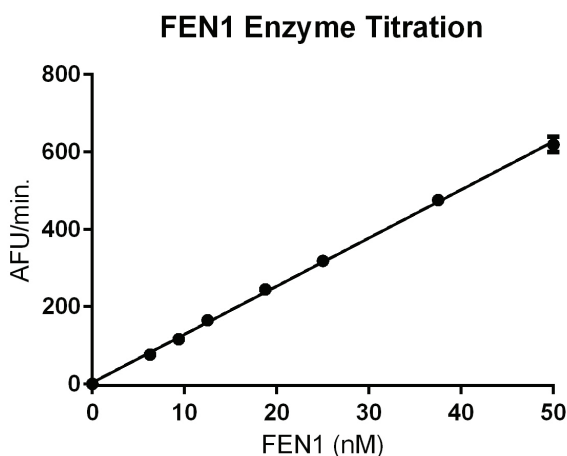
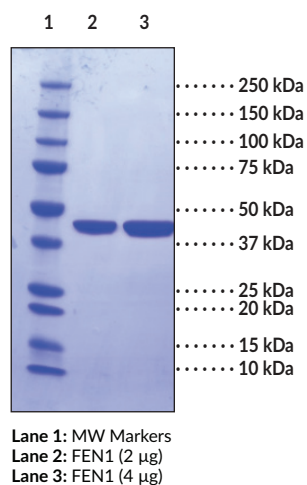
Item No. 14199

Overview and Properties

Synonyms: Flap Endonuclease 1, hFEN-1
Source: Active recombinant C-terminal His-tagged protein expressed in *E. coli*
Amino Acids: 2-380 (full length)
Molecular Weight: 43.8 kDa
Storage: -80°C (as supplied); avoid freeze/thaw cycles by aliquoting protein.
Stability: ≥1 year
Purity: *batch specific* (≥85% estimated by SDS-PAGE)
Supplied in: 50 mM Tris, pH 8.0, containing 1 mM DTT and 10% glycerol
Protein Concentration: *batch specific* mg/ml
Activity: *batch specific* U/ml
Specific Activity: *batch specific* U/mg
Unit Definition: One unit is defined as the amount of enzyme to produce 1 pmol of FLAP per minute at 25°C in 50 mM Tris, pH 8.0, 10 mM MgCl₂, 1 mM DTT, and 0.01% Tween 20.

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Images



WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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PRODUCT INFORMATION



Description

Flap endonuclease 1 (FEN1), a RAD2 Class II nuclease, plays a crucial role in DNA repair, replication, and genomic stability.¹ FEN1 removes the 5'-unannealed flap during Okazaki fragment processing in lagging strand DNA synthesis.² Removal of the DNA flap is also critical in long-patch base excision repair and regulation of recombination.³ In yeast, FEN1 mutants display sensitivity to UV irradiation, deficient chromosome segregation, and cell cycle arrest in S phase.⁴ Furthermore, haploinsufficiency of FEN1 in mice leads to rapid tumor progression.⁴ FEN1 is overexpressed in many forms of cancer, including lung, gastric, prostate, pancreatic, brain, and breast.³

References

1. Lee, B.-I. and Wilson, D.M.I. *J. Biol. Chem.* **274**(53), 37763-37769 (1999).
2. Jagannathan, I., Peppenella, S., and Hayes, J.J. *J. Biol. Chem.* **286**(20), 17521-17529 (2011).
3. Dorjsuren, D., Kim, D., Maloney, D.J., *et al.* *Nucleic Acids Res.* **39**(2), (2011).
4. Sakurai, S., Kitano, K., Yamaguchi, H., *et al.* *EMBO J.* **24**(4), 683-693 (2005).

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