



## Product Data Sheet

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<b>Cat#:</b>	AD-150-U
<b>Cat#:</b>	AD-150-B, Biotin labeled
<b>Cat#:</b>	AD-150-F, FITC labeled
<b>Product Description:</b>	Thrombin (15mer)
<b>Aptamer Type:</b>	DNA
<b>Sequence:</b>	5'-GGTTGGTGTGGTTGG-3'; 15-mer
<b>Size</b>	100 nM
<b>Mol. Wt:</b>	4726.13 g/mole
<b>Purity:</b>	>95%
<b>Affinity:</b>	25-200 nM (reported value)
<b>Comments:</b>	Uehara et al. (2008) found that conjugation of a poly(dA) tail to the 5' end disrupts binding to thrombin. The 29mer version has higher affinity than the 15mer version, but less inhibitory activity.
<b>Notes:</b>	Thrombin aptamer binds to its target thrombin with good specificity and affinity which are therapeutic in approach.
<b>References:</b>	Bock, Louis, et al. "Selection of single-stranded DNA molecules that bind and inhibit human thrombin." Nature Journal 355, (1992): 564-566.

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