



DNA Aptamer against *Botulinum* Neurotoxin Type A

SKU# APT-022: DNA Aptamer against *Botulinum* Neurotoxin Type A

Background

Botulinum neurotoxin type A (BoNT/A) is a neurotoxin that is produced by the bacterium *Clostridium botulinum*. BoNT/A is used as a therapeutic drug to treat muscle disorders, by blocking the release of acetylcholine at the neuromuscular junction. This prevents the binding of acetylcholine to motor end-plate nicotinic acid receptors, which blocks muscle contraction. BoNT/A is also used to treat temporarily smooth facial wrinkles, severe underarm sweating and chronic migraine.

Aptamer type: DNA aptamer

Aptamer length: 60 bp

Affinity KD: 34 nM

Kit contents

The following components are included in the Kit.

	Component	Quantity
APT-022-10	Single strand DNA, lyophilized powder	10 nmol
APT-022-30	Single strand DNA, lyophilized powder	30 nmol

- Store at -20°; reagents are guaranteed stable for 12 months when properly stored.

References

Lou, X., et al., Micromagnetic selection of aptamers in microfluidic channels, Proc. Natl. Acad. Sci. U. S. A. 2009, 106: 2989–2994.