

N-doped Graphene quantum dots

Cat: NM000370

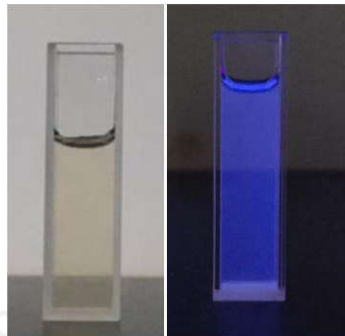
Specification: 100mg

Storage: Powder: Sealed, avoid light, and keep at room temperature. This powder is easy to be affected with damp. Expiry date: Six months. Sonicate at 700 W for 30 min if dispersion needed. The dispersion should be formulated immediately before its application. Sealed, avoid light, and keep at 4°C. Expiry date: Six months.

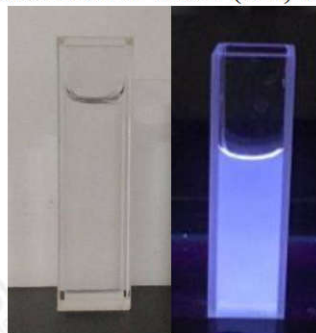
Product Introduction:

Product name	N-doped Graphene quantum dots
Appearance	White to light yellow powder
Thickness	1-6nm (AFM)
Transverse dimension	<10nm (AFM /TEM)

Representation Test Diagram:

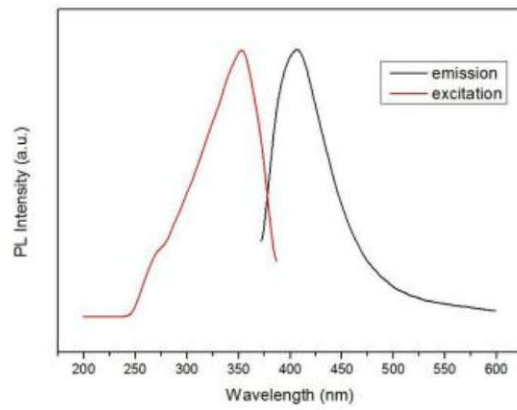


Photos of N-doped Graphene quantum dots in water (left) and under UV light at 365 nm (right)

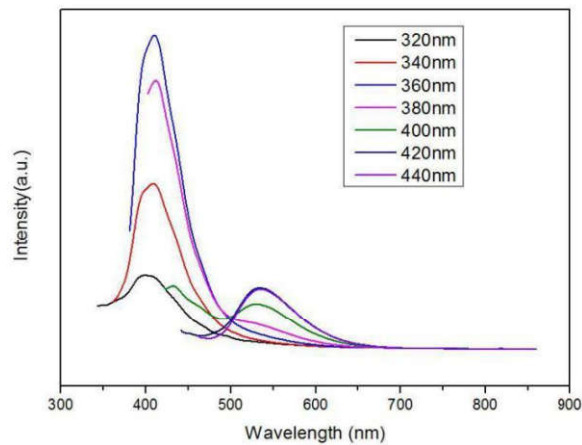


Photos of N-doped Graphene quantum dots in EtOH (left) and under UV light at 365 nm (right)

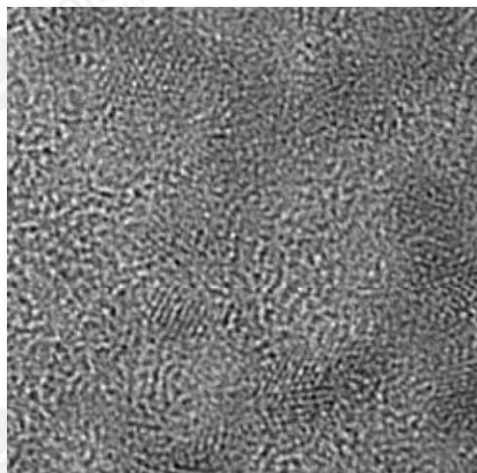
Note: Dispersion of N-doped Graphene quantum dots powder in water is good, but it is slightly worse in EtOH, and turbidity or precipitation may occur.



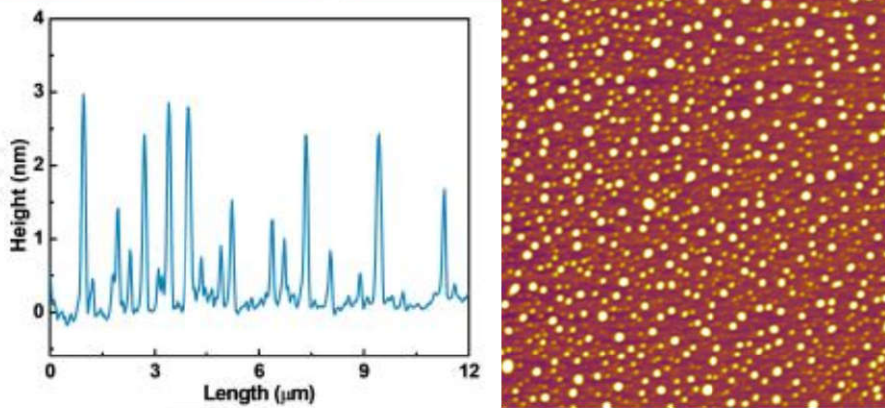
PL spectrum of N-doped Graphene quantum dots in water



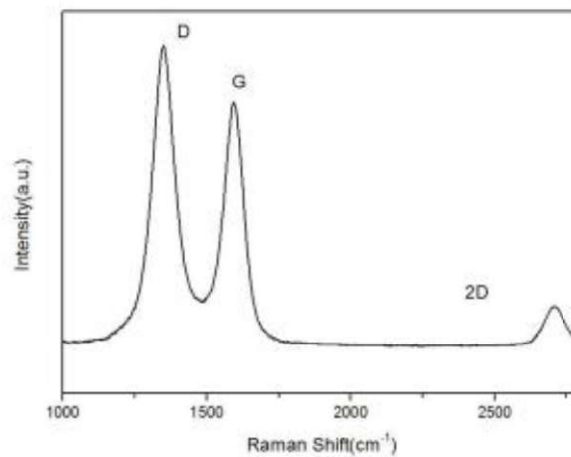
PL spectrum of N-doped Graphene quantum dots in EtOH



TEM of N-doped Graphene quantum dots in water (5nm)



AFM of N-doped Graphene quantum dots in water (3 μm)



Raman spectrum of N-doped Graphene quantum dots

Application:

Composite materials, bio-labeling, optoelectronic devices, fluorescence materials etc.

Note:

1. This product is for scientific research use only. Do not use for medical, clinical diagnostic or therapeutic, food or cosmetic purposes. Do not store in ordinary residential areas.
2. For your safety and health, please wear a laboratory coat and wear disposable gloves and masks to operate.